

WHAT WE CLAIM IS:

1. Underground water retention apparatus comprising in combination:
perimeter support means for providing structural support;
liner means secured to the perimeter support means for holding a quantity of run off
water;
means for draining run off water onto the liner;
means for draining the run off water from the liner; and
roof means disposed on the perimeter support means for covering the liner and for
providing structural support for appropriate usage of the roof means.
2. The apparatus of claim 1 in which the perimeter support means comprises a
retaining wall.
3. The apparatus of claim 2 in which the means for draining run off from the liner
includes a dry well.
4. The apparatus of claim 1 in which the means for draining run off from the liner
includes a pump.

5. The apparatus of claim 1 in which the perimeter support means includes a plurality of caissons.

6. The apparatus of claim 5 in which the perimeter support means further includes an L-beam disposed on at least some of the plurality of caissons.

7. The apparatus of claim 5 in which the plurality of caissons are spaced apart from each other.

8. The apparatus of claim 7 in which the plurality of spaced apart caissons includes a first row of spaced apart caissons and a second row of spaced apart caissons.

9. The apparatus of claim 8 in which the perimeter support means includes a first L-beam disposed on the first row of spaced apart caissons and a second L-beam disposed on the second row of spaced apart caissons.

10. The apparatus of claim 9 in which the roof means comprises a plurality of tee elements disposed on the first and second L-beams.

11. The apparatus of claim 1 in which the roof means includes a plurality of tee elements disposed on the perimeter support means.

12. The apparatus of claim 1 in which the plurality of tee elements are disposed adjacent to each other.

13. The apparatus of claim 1 in which the liner means includes an upper side wall portion, a lower side wall portion, and a bottom portion.

14. The apparatus of claim 13 in which the upper side wall portion is disposed at a relatively shallow angle.

15. The apparatus of claim 14 in which the lower side wall portion is disposed at a relatively steep angle.

16. The apparatus of claim 1 in which the liner means comprises a plastic liner.

17. The apparatus of claim 1 in which the liner means is made of cementitious material.

18. The apparatus of claim 1 in which the perimeter support means includes a generally vertically disposed retaining wall.

19. The apparatus of claim 1 in which the liner means is secured to the vertically disposed retaining wall.

20. The apparatus of claim 19 in which the retaining wall is relatively short.

21. The apparatus of claim 19 in which the retaining wall is relatively long.

22. The apparatus of claim 1 in which the perimeter support means includes a stepped retaining wall.

23. The apparatus of claim 22 in which the perimeter support means includes a plurality of relatively short stepped retaining walls.

24. The apparatus of claim 23 in which the liner means is secured to the stepped retaining walls.

25. The apparatus of claim 1 in which the roof means includes a plurality of structural tee elements.

26. The apparatus of claim 25 in which the roof means further includes a concrete cap disposed on the structural tee elements.

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